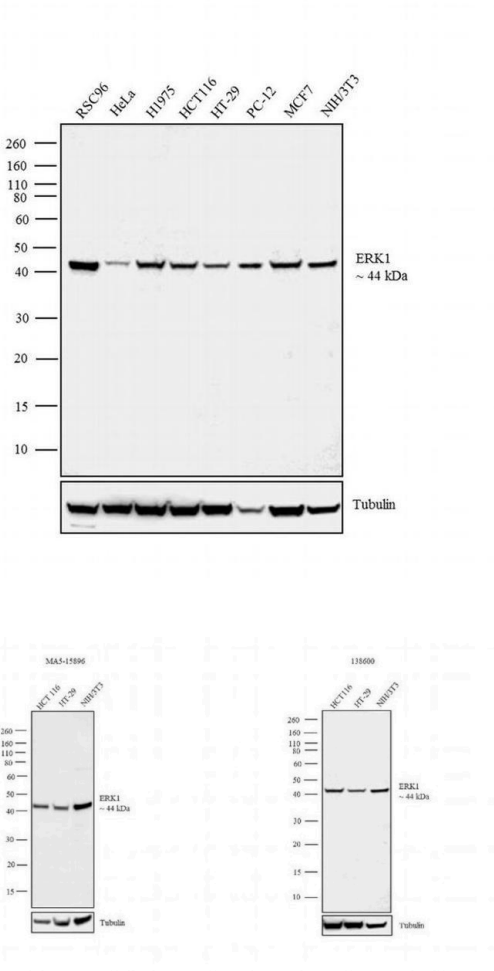


ERK1 Monoclonal Antibody (ERK-6B11)

Product Details	
Size	100 µg
Species Reactivity	Dog, Human, Mouse, Rat
Published Species	Tag, Pig, Rat, Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	ERK-6B11
Conjugate	Unconjugated
Immunogen	Synthetic Peptide corresponding to a section of the C-terminus of rat ERK1.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533041

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	10 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	1:250	-
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-dependent	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Images For ERK1 Monoclonal Antibody (ERK-6B11)

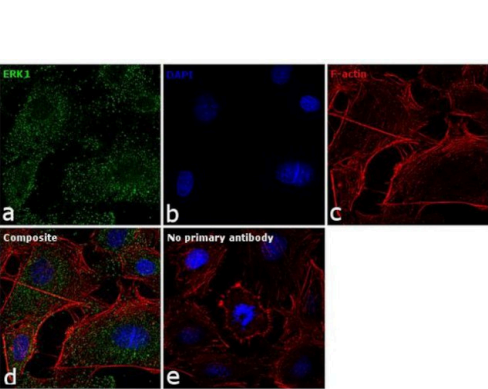


ERK1 Antibody (13-8600) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of RSC96 (Lane 1), HeLa (Lane 2), H1975 (Lane 3), HCT116 (Lane 4), HT-29 (Lane 5), PC12 (Lane 6), MCF7 (Lane 7) and NIH/3T3 (Lane 8). The blot was probed with Anti-ERK1 Mouse Monoclonal Antibody (Product # 13-8600, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg /mL, 1:4000 dilution). A 44 kDa band corresponding to ERK1 was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane using the wet transfer system. The membrane was probed with the relevant primary and secondary antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

ERK1 Antibody (13-8600)

Antibody specificity was demonstrated by showing that antibodies raised against the same target protein perform similarly. Western blot of ERK1 using Anti-ERK1 Monoclonal Antibody (Product # 13-8600), tested in parallel with ERK1 Monoclonal Antibody (Product # MA5-15896), shows similar expression of ERK1 in the cell lines tested. {IAV}



ERK1 Antibody (13-8600) in ICC/IF

Immunofluorescence analysis of ERK1 was performed using 70% confluent A549 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with ERK1 (ERK-6B11) Mouse Monoclonal Antibody (Product # 13-8600) at 1:250 dilution in 0.1% BSA and incubated overnight at 4 degree Celsius and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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Western Blot (10)

<p>Frontiers in chemistry</p> <p>Extracts of <i>Physalis peruviana</i> Protect Astrocytic Cells Under Oxidative Stress With Rotenone.</p> <p>"13-8600 was used in Western Blotting to suggest that ethanolic and acetone extracts from <i>Physalis peruviana</i> have potential to overcome oxidative damage induced by neurotoxic compounds."</p> <p>Authors: Areiza-Mazo N,Robles J,Zamudio-Rodriguez JA,Giraldez L,Echeverria V,Barrera-Bailon B,Aliev G,Sahebkar A,Ashraf GM,Barreto GE</p>	<p>Year 2020</p> <p>Species Human</p>
<p>Journal of Cancer</p> <p>Curcumin Enhances Radiosensitization of Nasopharyngeal Carcinoma via Mediating Regulation of Tumor Stem-like Cells by a CircRNA Network.</p> <p>"13-8600 was used in Western Blot to explore the potential relationships among curcumin, circRNAs, and nasopharyngeal carcinoma (NPC)."</p> <p>Authors: Zhu D,Shao M,Yang J,Fang M,Liu S,Lou D,Gao R,Liu Y,Li A,Lv Y,Mo Z,Fan Q</p>	<p>Year 2020</p> <p>Species Human</p>

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Immunohistochemistry (1)

<p>Scientific reports</p> <p>ERK2 mediates inner hair cell survival and decreases susceptibility to noise-induced hearing loss.</p> <p>"13-8600 was used in immunohistochemistry - paraffin section and western blot to elucidate the role of ERK isoforms to auditory function"</p> <p>Authors: Kurioka T,Matsunobu T,Satoh Y,Niwa K,Endo S,Fujioka M,Shiotani A</p>	<p>Year 2015</p> <p>Species Mouse</p>
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Immunoprecipitation (1)

<p>The Journal of biological chemistry</p> <p>Alpha 7 nicotinic acetylcholine receptors mediate beta-amyloid peptide-induced tau protein phosphorylation.</p> <p>Authors: Wang HY,Li W,Benedetti NJ,Lee DH</p>	<p>Year 2003</p> <p>Species Human</p>
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Misc (1)

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